

# The resolution of OAB symptom after mesh surgery for pelvic organ prolapse.

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## Aim

To examine the prevalence of overactive bladder (OAB) in women with pelvic organ prolapse (POP) and its improvement with mesh surgery.

## Methods

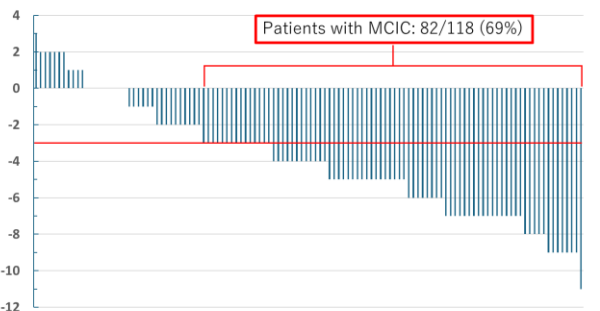
We retrospectively reviewed 226 patients who underwent mesh surgery for POP. OAB was determined by OABSS (patients with a Q3 score of 2 or more and a total score of 3 or more). The degree of bother was assessed with the 100mm-VAS scale (OABSS-VAS). The persistent urgency was defined as postoperative OABSS-Q3≥1.

## Results

### ① Patient characteristics (n=226)

	Median (range) / n (%)
Age (years)	72.5 (42–87)
BMI (kg/m <sup>2</sup> )	24 (14–39)
Parity	2 (0–5)
History of hysterectomy	22%
POP-Q stage ≥3	Anterior: 87% / Apical: 38% / Posterior: 11%
OABSS before surgery	
OABSS Q1	1 (0–2)
OABSS Q2	1 (0–3)
OABSS Q3	2 (0–5)
OABSS Q4	1 (0–5)
total score	6 (0–14)
OABSS-VAS-QOL	73 (0–100)
Surgical procedure	TVM: 117 / Laparoscopic or robotic SC: 109
Preoperative OAB	118 (52%)

### ② Change in total OABSS score after surgery among patients who was OAB preoperatively (n=118)



MCIC\*: minimal clinically important change :OABSS total score decreased by ≥ 3 points  
\*Gotoh et al. Urology. 2011 Oct;78(4):768-73.

### ③ The comparison of patients with and without urgency after surgery.

	Total(OAB preoperatively) (n=118)	Urgency Disappeared (n=75)	Urgency Persistent (n=43)	P value
Age, years, median (range)	74(60–87)	74(60–87)	73(61–87)	0.58
BMI, kg/m <sup>2</sup> , median (range)	24.2(13.9–39.1)	24.1(13.9–31.6)	24.3(18.3–39.1)	0.77
Parity, n, median (range)	2(0–4)	2(0–4)	2(1–3)	0.96
History of hysterectomy, n(%)	21	14(19)	7(16)	0.80
POP-Q stage ≥3, n(%)				
anterior	104(88)	67(89)	37(86)	0.77
apical	44(37)	29(39)	15(35)	0.70
posterior	15(13)	11(15)	4(9)	0.57
Comorbidities, n(%)				
HT	62	43	29	0.55
Diabetes mellitus	19	10	9	0.44
Neurological disease	11	7(9.3)	4(9.3)	1.00
No. of comorbidities ≥2, n(%)	21(18)	11(15)	10(23)	0.32
No. of comorbidities ≥3, n(%)	2(1.7)	1(1.3)	1(2.3)	1.00
OABSS, median (range)				
OABSS Q1	1(0–2)	1(0–2)	1(0–2)	0.30
OABSS Q2	2(0–3)	2(0–3)	2(0–3)	0.22
OABSS Q3	3(2–5)	3(2–5)	4(2–5)	<0.0001
OABSS Q4	3(0–5)	2(0–5)	3(1–5)	0.0011
total score	8(4–14)	8(4–14)	10(4–13)	<0.0001
OABSS-VAS-QOL, median (range)	89(5–100)	86(22–100)	90(5–100)	0.14
Surgical procedure, n(%)	TVM:60(51) RSC/LSC:58(49)	TVM:34(45) RSC/LSC:41(54)	TVM:26(60) RSC/LSC:17(40)	0.13
Concomitant TVT, n(%)	6(5.1)	6(8.0)	0(0.0)	0.08

### ④ Predictors of persistent urgency

	Univariate		Multivariate	
	OR(95%CI)	p	OR(95%CI)	p
Age	0.98(–0.08–5.50)	0.60	0.28(–0.10–0.05)	0.53
No. of comorbidities ≥2	1.76(0.67–4.61)	0.25	0.57(–0.82–0.23)	0.27
OABSS before surgery				
Q3	2.31(1.52–3.66)	<0.0001	5.00(0.51–1.44)	<0.0001
Q4	1.71(1.25–2.41)	0.0005	-	-
total	1.42(1.20–1.71)	<0.0001	-	-

## Conclusions

OAB was found in 52% of patients with advanced POP. OAB remained in 36% of patients after mesh surgery. Persistent OAB may likely occur in patients with severe OAB symptoms preoperatively.

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